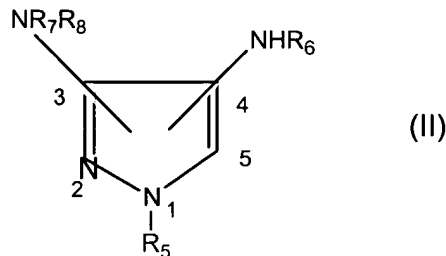


20. (Amended) A composition for the oxidation dyeing of keratin fibers comprising:

- at least one oxidation base chosen from diaminopyrazoles of formula (II) and acid-addition salts thereof:



in which:

- R<sub>5</sub> is chosen from a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical;
- R<sub>6</sub> and R<sub>7</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
- R<sub>8</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>6</sub> alkyl radical and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, and
- and at least one coupler chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof.

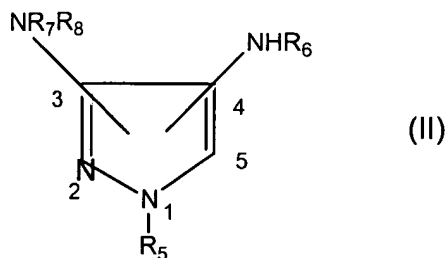
24. (Amended) A composition according to Claim 48, wherein said halogen atoms are chosen from chlorine, bromine, iodine and fluorine.

26. (Amended) A composition according to Claim 48, wherein said diaminopyrazoles are chosen from:

- a) diaminopyrazoles of formula (II), and acid addition salts thereof:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com



in which:

-  $R_5$  is chosen from a hydrogen atom, a  $C_1$ - $C_6$  alkyl radical, a  $C_2$ - $C_4$  hydroxyalkyl radical, a benzyl radical, a phenyl radical, a benzyl radical substituted with a halogen atom, a  $C_1$ - $C_4$  alkyl radical or  $C_1$ - $C_4$  alkoxy radical, or

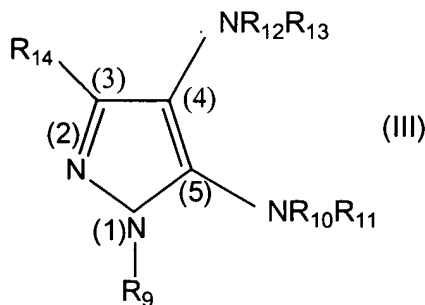
$R_5$  forms, with the nitrogen atom of the group  $NR_7R_8$  in position 5, a hexahydropyridazine or tetrahydropyrazole heterocycle which is optionally monosubstituted with a  $C_1$ - $C_4$  alkyl group;

-  $R_6$  and  $R_7$  which are identical or different, are chosen from a hydrogen atom, a  $C_1$ - $C_4$  alkyl radical, a  $C_2$ - $C_4$  hydroxyalkyl radical, a benzyl radical and a phenyl radical;

-  $R_8$  is chosen from a hydrogen atom, a  $C_1$ - $C_6$  alkyl radical and a  $C_2$ - $C_4$  hydroxyalkyl radical;

with the proviso that  $R_6$  is a hydrogen atom when  $R_5$  either is a substituted benzyl radical or forms a heterocycle with the nitrogen atom of the group  $NR_7R_8$  in position 5; and

b) diaminopyrazoles of formula (III), and acid addition salts thereof:

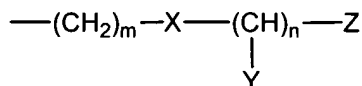


in which:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

- R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub> and R<sub>13</sub>, which are identical or different, are chosen from a hydrogen atom; a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl radical; a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical; a C<sub>2</sub>-C<sub>4</sub> aminoalkyl radical; a phenyl radical; a phenyl radical substituted with a halogen atom or a C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, nitro, trifluoromethyl, amino or C<sub>1</sub>-C<sub>4</sub> alkylamino radical; a benzyl radical; a benzyl radical substituted with a halogen atom or with a C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, methylenedioxy or amino radical; and a radical



in which m and n are integers, which are identical or different, ranging from 1 to 3 inclusive, X is chosen from an oxygen atom and an NH group, Y is chosen from a hydrogen atom and a methyl radical, and Z is chosen from a methyl radical and a group OR or NRR' in which R and R', which are identical or different, are chosen from a hydrogen atom, a methyl radical and an ethyl radical,

with the proviso that when R<sub>10</sub> is a hydrogen atom, then R<sub>11</sub> can also be an amino or C<sub>1</sub>-C<sub>4</sub> alkylamino radical,

- R<sub>14</sub> is chosen from a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl radical; a C<sub>1</sub>-C<sub>4</sub> hydroxyalkyl radical; a C<sub>1</sub>-C<sub>4</sub> aminoalkyl radical; a (C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl radical; a di(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl radical; a hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl radical; a (C<sub>1</sub>-C<sub>4</sub>)alkoxymethyl radical; a phenyl radical; a phenyl radical substituted with a halogen atom or with a C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, nitro, trifluoromethyl, amino or C<sub>1</sub>-C<sub>4</sub> alkylamino radical; a benzyl radical; a benzyl radical substituted with a halogen atom or with a C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy, nitro, trifluoromethyl, amino or C<sub>1</sub>-C<sub>4</sub> alkylamino radical; a heterocycle chosen from thiophene, furan and pyridine; and a radical  $\text{---}(\text{CH}_2)_p\text{---O---}(\text{CH}_2)_q\text{---OR''}$ , in which p and q are integers, which are identical or different, ranging from 1 to 3 inclusive, and R'' is chosen from a hydrogen atom and a methyl radical;

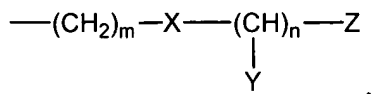
FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

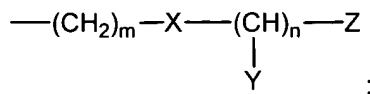
with the provisos that, in formula (III),

- at least one of the radicals  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$  and  $R_{13}$  is a hydrogen atom;

- when  $R_{10}$ , or  $R_{12}$ , respectively, is a substituted or unsubstituted phenyl radical, or a benzyl radical or a radical



then  $R_{11}$ , or  $R_{13}$ , respectively, is not a substituted or unsubstituted phenyl radical, or a benzyl radical or a radical

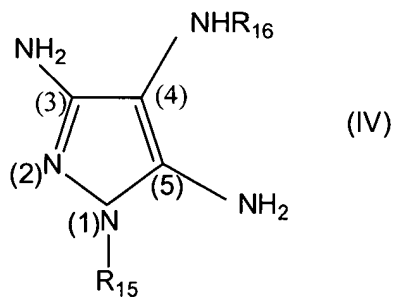


C3  
contg

- when  $R_{12}$  and  $R_{13}$  simultaneously represent a hydrogen atom, then  $R_9$  can form, with  $R_{10}$  and  $R_{11}$ , a hexahydropyrimidine or tetrahydroimidazole heterocycle which is optionally substituted with a  $C_1$ - $C_4$  alkyl or 1,2,4-tetrazole radical;

- when  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$  and  $R_{13}$  represent a hydrogen atom or a  $C_1$ - $C_6$  alkyl radical, then  $R_9$  or  $R_{14}$  can also represent a 2-, 3- or 4-pyridyl, 2- or 3-thienyl or 2- or 3-furyl heterocyclic residue which is optionally substituted with a methyl radical or a cyclohexyl radical.

27. (Amended) A composition according to Claim 48, wherein said triaminopyrazoles are chosen from compounds of formula (IV), and acid addition salts thereof:



in which:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

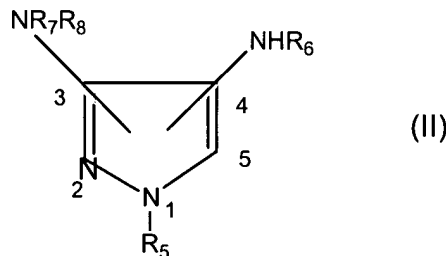
C3  
cont'd

- R<sub>15</sub> and R<sub>16</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical.

42. (Amended) A method for dyeing keratin fibers, comprising:

(a) applying to said keratin fibers at least one dye composition, which comprises

- at least one oxidation base chosen from diaminopyrazoles of formula (II) and acid-addition salts thereof:



in which:

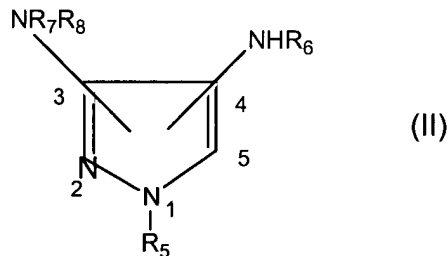
C4

- R<sub>5</sub> is chosen from a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical;
- R<sub>6</sub> and R<sub>7</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
- R<sub>8</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>6</sub> alkyl radical and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, and
- at least one coupler chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof; and

(b) developing a color at an acidic, neutral or alkaline pH with the aid of an oxidizing agent, wherein said oxidizing agent is added to said at least one dye composition at the time of application of said composition, or wherein said oxidizing agent is present in an oxidizing composition, and wherein said oxidizing composition is applied simultaneously or sequentially with said at least one dye composition.

47. (Amended) A multi-compartment kit for dyeing keratin fibers, comprising at least two compartments, wherein one compartment comprises an oxidizing composition, and another compartment comprises a composition for the oxidation dyeing of keratin fibers, said composition for the oxidation dyeing of keratin fibers comprising:

- at least one oxidation base chosen from diaminopyrazoles of formula (II) and acid-addition salts thereof:



in which:

- C25
- R<sub>5</sub> is chosen from a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical;
  - R<sub>6</sub> and R<sub>7</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
  - R<sub>8</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>6</sub> alkyl radical and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, and
  - at least one coupler chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof.

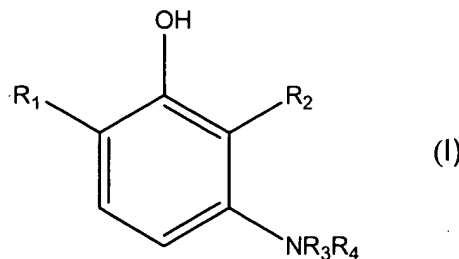
48. (New) A composition for the oxidation dyeing of keratin fibers comprising:

- at least one oxidation base chosen from diaminopyrazoles, triaminopyrazoles, and acid-addition salts thereof, and

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

- at least one coupler chosen from halogenated meta-aminophenols of formula (I), and acid addition salts thereof:



in which:

- R<sub>1</sub> is chosen from a hydrogen atom, a halogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical, a C<sub>1</sub>-C<sub>4</sub> alkoxy radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkoxy radical and a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkoxy radical;

- R<sub>2</sub> is chosen from a halogen atom; and

- R<sub>3</sub> and R<sub>4</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical and a C<sub>1</sub>-C<sub>4</sub> monoaminoalkyl radical.

49. (New) A composition according to Claim 48, wherein R<sub>1</sub> is chosen from a halogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical, a C<sub>1</sub>-C<sub>4</sub> alkoxy radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkoxy radical and a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkoxy radical.

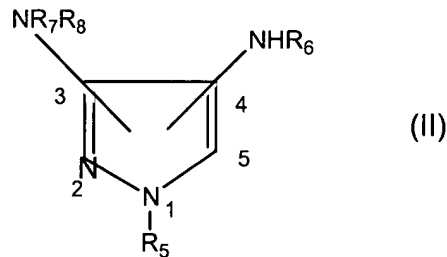
50. (New) A composition according to Claim 48, wherein R<sub>1</sub> is chosen from a C<sub>1</sub>-C<sub>4</sub> alkyl radical.

51. (New) A composition according to Claim 48, wherein the at least one coupler is chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

52. (New) A composition according to Claim 48, wherein the at least one oxidation base is chosen from diaminopyrazoles of formula (II), and acid addition salts thereof:



in which:

- R<sub>5</sub> is chosen from a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical;
- R<sub>6</sub> and R<sub>7</sub> which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
- R<sub>8</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>6</sub> alkyl radical and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical.

53. (New) A composition according to Claim 48, wherein said keratin fibers are human keratin fibers.

54. (New) A composition according to Claim 53, wherein said human keratin fibers are human hair.

55. (New) A composition according to Claim 48, wherein said composition is in a medium suitable for dyeing.

56. (New) A composition according to Claim 48, wherein said at least one oxidation base is present in an amount ranging from 0.0005 to 12% by weight relative to the total weight of the composition.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com



57. (New) A composition according to Claim 56, wherein said at least one oxidation base is present in an amount ranging from 0.005 to 6% by weight relative to the total weight of the composition.

58. (New) A composition according to Claim 48, wherein said at least one coupler is present in an amount ranging from 0.0001 to 5% by weight relative to the total weight of the composition.

59. (New) A composition according to Claim 58, wherein said at least one coupler is present in an amount ranging from 0.005 to 3% by weight relative to the total weight of the composition.

60. (New) A composition according to Claim 48, wherein said acid addition salts are chosen from hydrochlorides, hydrobromides, sulphates, tartrates, lactates and acetates.

61. (New) A composition according to Claim 55, wherein said medium suitable for dyeing or support comprises water or a mixture of water and at least one organic solvent.

62. (New) A composition according to Claim 61, wherein said at least one organic solvent is chosen from C<sub>1</sub>-C<sub>4</sub> lower alkanols, glycerol, glycols and glycol ethers, and aromatic alcohols.

63. (New) A composition according to Claim 48, wherein said composition has a pH ranging from 3 to 12.

64. (New) A composition according to Claim 48, wherein said composition is in the form of a liquid, a cream, or a gel.

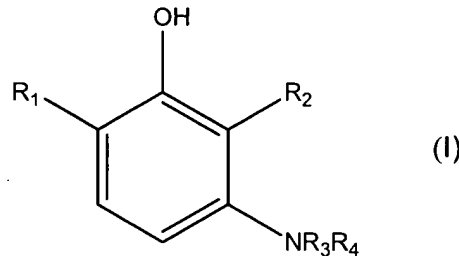
65. (New) A composition according to Claim 48, wherein said composition is in the form of a liquid, a cream, a gel, or in any other form suitable for dyeing human hair.

66. (New) A method for dyeing keratin fibers, comprising:

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

- (a) applying to said keratin fibers at least one dye composition, which comprises
- at least one oxidation base chosen from diaminopyrazoles, triaminopyrazoles, and acid-addition salts thereof;
  - and at least one coupler chosen from halogenated meta-aminophenols of formula (I), and acid addition salts thereof:



in which:

- R<sub>1</sub> is chosen from a hydrogen atom, a halogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical, a C<sub>1</sub>-C<sub>4</sub> alkoxy radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkoxy radical and a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkoxy radical;

- R<sub>2</sub> is chosen from a halogen atom; and

- R<sub>3</sub> and R<sub>4</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical and a C<sub>1</sub>-C<sub>4</sub> monoaminoalkyl radical; and

(b) developing a color at an acidic, neutral or alkaline pH with the aid of an oxidizing agent, wherein said oxidizing agent is added to said at least one dye composition at the time of application of said composition, or wherein said oxidizing agent is present in an oxidizing composition, and wherein said oxidizing composition is applied simultaneously or sequentially with said at least one dye composition.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

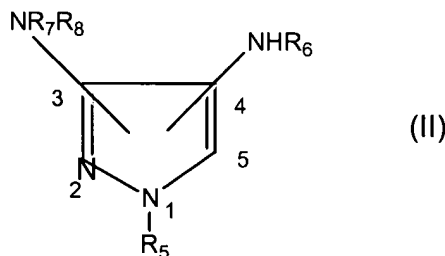
1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

67. (New) A method according to claim 66, wherein  $R_1$  is chosen from  $R_1$  is chosen from a halogen atom, a  $C_1$ - $C_4$  alkyl radical, a  $C_1$ - $C_4$  monohydroxyalkyl radical, a  $C_2$ - $C_4$  polyhydroxyalkyl radical, a  $C_1$ - $C_4$  alkoxy radical, a  $C_1$ - $C_4$  monohydroxyalkoxy radical and a  $C_2$ - $C_4$  polyhydroxyalkoxy radical.

68. (New) A method according to claim 66, wherein  $R_1$  is chosen from a  $C_1$ - $C_4$  alkyl radical.

69. (New) A method according to claim 66, wherein the at least one coupler is chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof.

70. (New) A method according to claim 66, wherein the at least one oxidation base is chosen from diaminopyrazoles of formula (II), and acid addition salts thereof:



in which:

- $R_5$  is chosen from a  $C_2$ - $C_4$  hydroxyalkyl radical;
- $R_6$  and  $R_7$  which are identical or different, are chosen from a hydrogen atom, a  $C_1$ - $C_4$  alkyl radical, a  $C_2$ - $C_4$  hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
- $R_8$  is chosen from a hydrogen atom, a  $C_1$ - $C_6$  alkyl radical and a  $C_2$ - $C_4$  hydroxyalkyl radical.

71. (New) A method according to Claim 66, wherein said keratin fibers are human keratin fibers.

FINNEGAN  
HENDERSON  
FARABOW  
GARRETT &  
DUNNER LLP

1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

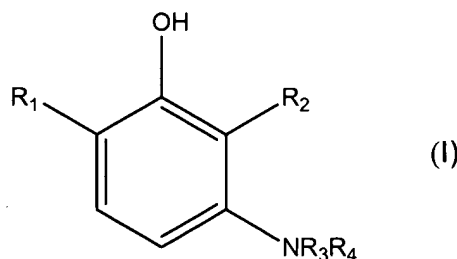
72. (New) A method according to Claim 71, wherein said human keratin fibers are human hair.

73. (New) A method according to Claim 66, wherein said oxidizing agent is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, and peracids.

74. (New) A method according to Claim 73, wherein said persalts are chosen from perborates, percarbonates and persulphates.

75. (New) A multi-compartment kit for dyeing keratin fibers, comprising at least two compartments, wherein one compartment comprises an oxidizing composition, and another compartment comprises a composition for the oxidation dyeing of keratin fibers, said composition for the oxidation dyeing of keratin fibers comprising:

- C86*  
*cont'd*
- at least one oxidation base chosen from diaminopyrazoles, triaminopyrazoles, and acid-addition salts thereof;
  - and at least one coupler chosen from halogenated meta-aminophenols of formula (I), and acid addition salts thereof:



in which:

- R<sub>1</sub> is chosen from a hydrogen atom, a halogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical, a C<sub>1</sub>-C<sub>4</sub> alkoxy radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkoxy radical and a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkoxy radical;

- R<sub>2</sub> is chosen from a halogen atom; and

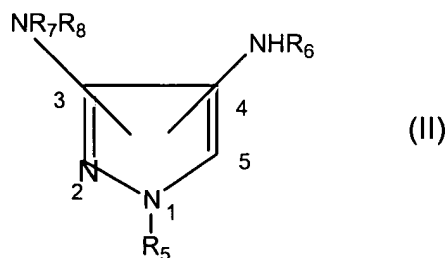
- R<sub>3</sub> and R<sub>4</sub>, which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical and a C<sub>1</sub>-C<sub>4</sub> monoaminoalkyl radical..

76. (New) A multi-compartment kit according to Claim 75, wherein R<sub>1</sub> is chosen from R<sub>1</sub> is chosen from a halogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl radical, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl radical, a C<sub>1</sub>-C<sub>4</sub> alkoxy radical, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkoxy radical and a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkoxy radical.

77. (New) A multi-compartment kit according to Claim 75, wherein R<sub>1</sub> is chosen from a C<sub>1</sub>-C<sub>4</sub> alkyl radical.

78. (New) A multi-compartment kit according to Claim 75, wherein the at least one coupler is chosen from 3-amino-2-chloro-6-methylphenol and acid addition salts thereof.

79. (New) A multi-compartment kit according to Claim 75, wherein the at least one oxidation base is chosen from diaminopyrazoles of formula (II), and acid addition salts thereof:



in which:

- R<sub>5</sub> is chosen from a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical;
- R<sub>6</sub> and R<sub>7</sub> which are identical or different, are chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical, a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical, a benzyl radical and a phenyl radical; and
- R<sub>8</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>6</sub> alkyl radical and a C<sub>2</sub>-C<sub>4</sub> hydroxyalkyl radical.